

Training Course I

Title: Remote Sensing and Geographic Information System (GIS) Data Integration

Instructor:

William Sharp, Research Systems Inc., Boulder, CO

Time: Monday 14 May 2001, 1:00-5:00 p.m.

Course objective:

To provide an overview and basic introduction to remote sensing data, its sources, uses, and integration with raster and vector GIS data. This will be accomplished through the use of example data, applications and specific processing techniques.

Target audience:

Those new to remote sensing, but with a need or desire to apply it in their work. This would include scientists who are not specialists in remote sensing, students and practitioners interested in learning the basics of satellite or aircraft based optical or Radar image analysis, and sources of data, and the integration of these with GIS data.

Course outline :

1. Overview of remote sensing and GIS (*15 minutes*)
2. Sources and types of data (*20 minutes*)
3. Tools and Techniques (*1 hour and 25 minutes, with break*)

- Reading and Display

Break (15 minutes)

- Radiometric and Geometric Correction
- Information Extraction
- Data Integration

4. Applications (*15 minutes*)
5. Conclusions (*10 minutes*)

Brief biographical sketch of instructor:

William Sharp has been a part of the remote sensing and GIS industry for over 14 years. With a background in geophysics and remote sensing, he has many years of experience as a remote sensing theory and applications instructor, software development manager, and marketing manager. He has intimate knowledge of various remote sensing applications in a variety of fields such as environmental, geologic, marine, urban planning and military/intel. Mr. Sharp currently works as the marketing manager for ENVI at a subsidiary of Eastman Kodak called Research Systems, Inc. in Boulder, CO. He can be contacted at (303) 402-4675, or via email at <mailto:wsharp@rsinc.com>wsharp@rsinc.com